

IN THE CLAIMS

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1 (1) Claim 1: (previously amended) A telephone call and voice processing system  
2 comprising:  
3 switching circuitry for receiving a call, wherein the switching circuitry connects the  
4 call to a telecommunications device coupled to the system; and  
5 voice processing circuitry for automatically interacting with the call, wherein the  
6 switching circuitry and the voice processing circuitry are controlled by not more than one  
7 microprocessor.

1 (2) Claim 2: (previously amended) The system as recited in claim 1, wherein the  
2 voice processing circuitry further comprises a signal processing circuitry coupled to the  
3 one microprocessor.

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1 (3) Claim 3: (previously amended) A telephone call and voice processing system  
2 comprising:  
3 switching circuitry for receiving a call, wherein the switching circuitry connects the  
4 call to a telecommunications device coupled to the system; and  
5 voice processing circuitry for automatically interacting with the call, wherein the  
6 switching circuitry and the voice processing circuitry are controlled by a single processing  
7 means, wherein the voice processing circuitry further comprises a signal processing circuitry  
8 coupled to the single processing means, wherein the switching circuitry further comprises  
9 a digital cross-point matrix coupled to the single processing means and to the signal  
10 processing circuitry.

(4) Claim 4: (previously cancelled)

(5) Claim 5: (previously cancelled)

1 (6) Claim 6: (previously amended) A telephone call and voice processing system  
2 comprising:

3 switching circuitry for receiving a call, wherein the switching circuitry connects the  
4 call to a telecommunications device coupled to the system; and

5 voice processing circuitry for automatically interacting with the call, wherein the  
6 switching circuitry and the voice processing circuitry are controlled by a single processing  
7 means, wherein the single processing means is controlled by a single set of software operable  
8 for controlling both the switching circuitry and the voice processing circuitry.

(7) Claim 7: (previously cancelled)

(8) Claim 8: (previously cancelled)

(9) Claim 9: (previously cancelled)

(10) Claim 10: (previously cancelled)

(11) Claim 11: (previously cancelled)

1 (12) Claim 12: (previously amended) A telephone call and voice processing system  
2 comprising:

3 switching circuitry for receiving a call, wherein the switching circuitry connects the  
4 call to a telecommunications device coupled to the system; and

5 voice processing circuitry for automatically interacting with the call, wherein the  
6 switching circuitry and the voice processing circuitry are controlled by a single processing  
7 means, wherein the voice processing circuitry further comprises a signal processing circuitry  
8 coupled to the single processing means, wherein the signal processing circuitry further  
9 includes:

10 a DTMF receiver operable for recognizing DTMF tones from the call.

1 (13) Claim 13: (previously amended) A telephone call and voice processing system  
2 comprising:

3 switching circuitry for receiving a call, wherein the switching circuitry connects the  
4 call to a telecommunications device coupled to the system; and

5 voice processing circuitry for automatically interacting with the call, wherein the  
6 switching circuitry and the voice processing circuitry are controlled by a single processing  
7 means, wherein the voice processing circuitry further comprises a signal processing circuitry  
8 coupled to the single processing means, wherein the signal processing circuitry further  
9 includes:

10 a recording buffer operable for recording the call.

(14) Claim 14: (previously cancelled)

(15) Claim 15: (previously cancelled)

1 (16) Claim 16: (previously amended) A telephone call and voice processing system  
2 comprising:

3 switching circuitry for receiving a call, wherein the switching circuitry connects the  
4 call to a telecommunications device coupled to the system; and

5 voice processing circuitry for automatically interacting with the call, wherein the  
6 switching circuitry and the voice processing circuitry are controlled by a single processing  
7 means, wherein the voice processing circuitry further comprises a signal processing circuitry  
8 coupled to the single processing means, wherein the signal processing circuitry further  
9 includes:

10 a call processing tone generator operable for generating and transmitting to the call  
11 standard call processing tones.

(17) Claim 17: (previously cancelled)

1 (18) Claim 18: (currently amended) The system as recited in claim 1, further  
2 comprising circuitry operable for recording all or a portion of the call during an off-hook  
3 state after the telecommunications device is connected to the call.

1 (19) Claim 19: (original) The system as recited in claim 18, wherein the recording  
2 circuitry operates in response to a tactilely initiated activating signal.

1 (20) Claim 20: (original) The system as recited in claim 19, wherein the recording  
2 circuitry further comprises:

3 circuitry for coupling a recording buffer in the signal processing circuitry to the call,  
4 wherein the signal processing circuitry is coupled to the single processing means.

(21) Claim 21: (previously cancelled)

(22) Claim 22: (cancelled)

(23) Claim 23: (previously cancelled)

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1 (24) Claim 24: (original) The system as recited in claim 1, further comprising:  
2 circuitry for listening to a voice signal at a telephone extension coupled to the system;  
3 circuitry for activating a recording sequence to record the voice signal; and  
4 circuitry for storing the recorded voice signal in a digital memory.

1 (25) Claim 25: (original) The system as recited in claim 24, wherein the activating  
2 circuitry is tactilely initiated by a user of the telephone extension.

1 (26) Claim 26: (original) The system as recited in claim 25, wherein the voice signal  
2 originated from the call.

1 (27) Claim 27: (previously amended) A telephone call and voice processing system  
2 comprising:

3 switching circuitry for receiving a call, wherein the switching circuitry connects the  
4 call to a telecommunications device coupled to the system;

5 voice processing circuitry for automatically interacting with the call, wherein the  
6 switching circuitry and the voice processing circuitry are controlled by a single processing  
7 means;

8 circuitry for listening to a voice signal at a telephone extension coupled to the system;  
9 circuitry for activating a recording sequence to record the voice signal; and

10           circuitry for storing the recorded voice signal in a digital memory, wherein the  
11   activating circuitry is tactically initiated by a user of the telephone extension, wherein the  
12   voice signal originated from a voice mail message stored in the system.

(28)   Claim 28: (previously cancelled)

(29)   Claim 29: (previously cancelled)

(30)   Claim 30: (previously cancelled)

(31)   Claim 31: (previously cancelled)

(32)   Claim 32: (previously cancelled)

(33)   Claim 33: (previously cancelled)

(34)   Claim 34: (previously cancelled)

(35)   Claim 35: (cancelled)

(36)   Claim 36: (previously cancelled)

(37)   Claim 37: (previously cancelled)

(38)   Claim 38: (cancelled)

(39)   Claim 39: (cancelled)

(40)   Claim 40: (previously cancelled)

(41)   Claim 41: (previously cancelled)

(42)   Claim 42: (previously cancelled)

(43)   Claim 43: (cancelled)

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(44) Claim 44: (previously cancelled)

(45) Claim 45: (previously cancelled)

(46) Claim 46: (cancelled)

(47) Claim 47: (cancelled)

(48) Claim 48: (previously cancelled)

(49) Claim 49: (previously cancelled)

(50) Claim 50: (previously cancelled)

(51) Claim 51: (previously cancelled)

(52) Claim 52: (previously cancelled)

(53) Claim 53: (previously cancelled)

(54) Claim 54: (previously cancelled)

(55) Claim 55: (previously cancelled)

(56) Claim 56: (previously cancelled)

(57) Claim 57: (previously cancelled)

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1 (58) Claim 58: (previously amended) In a telephone call and voice processing system  
2 comprising switching circuitry for receiving a call, wherein the switching circuitry  
3 connects the call to a telecommunications device coupled to the system, and voice  
4 processing circuitry for automatically interacting with the call, wherein the switching  
5 circuitry and the voice processing circuitry are controlled by a single processing means, a  
6 method comprising the steps of:

7 listening to a voice signal at a telephone extension coupled to the system;  
 8 activating a recording sequence to record the voice signal; and  
 9 storing the recorded voice signal in a memory.

1 (59) Claim 59: (original) The method as recited in claim 58, wherein the activating  
 2 step is tactilely initiated by a user of the telephone extension.

1 (60) Claim 60: (original) The method as recited in claim 58, wherein the voice signal  
 2 originated from the call to the system.

1 (61) Claim 61: (original) The method as recited in claim 58, wherein the voice signal  
 2 originated from a voice mail message stored in the system.

(62) Claim 62: (previously cancelled)

(63) Claim 63: (previously cancelled)

(64) Claim 64: (previously cancelled)

(65) Claim 65: (previously cancelled)

(66) Claim 66: (previously cancelled)

(67) Claim 67: (previously cancelled)

(68) Claim 68: (previously cancelled)

1 (69) Claim 69: (previously added) A telephone call and voice processing system  
 2 comprising:

3 switching circuitry for receiving a call, wherein the switching circuitry connects the  
 4 call to one of a plurality of telecommunications devices coupled to the system; and  
 5 voice processing circuitry for automatically interacting with the call, wherein the  
 6 switching circuitry and the voice processing circuitry are controlled by a single  
 7 microprocessor.

1 (70) Claim 70: (previously added) A telephone call and voice processing system  
2 comprising  
3 switching circuitry for receiving a call, wherein the switching circuitry connects the  
4 call to one of a plurality of telecommunications devices coupled to the system; and  
5 voice processing circuitry for automatically interacting with the call, wherein the  
6 switching circuitry further comprises a digital cross-point matrix.

1 (71) Claim 71: (previously added) A telephone call and voice processing system  
2 comprising:  
3 switching circuitry for receiving a call, wherein the switching circuitry connects the  
4 call to a telecommunications device coupled to the system;  
5 voice processing circuitry for automatically interacting with the call, wherein the  
6 switching circuitry and the voice processing circuitry are controlled by a single processing  
7 means;  
8 circuitry for listening to a voice signal at a telephone extension coupled to the system;  
9 circuitry for activating a recording sequence to record the voice signal; and  
10 circuitry for storing the recorded voice signal in a digital memory.

1 (72) Claim 72: (previously added) A telephone call and voice processing system  
2 comprising:  
3 switching circuitry for receiving a call, wherein the switching circuitry connects the  
4 call to a telecommunications device coupled to the system;  
5 voice processing circuitry for automatically interacting with the call, wherein the  
6 switching circuitry and the voice processing circuitry are controlled by a single processing  
7 means; and  
8 circuitry for permitting a user of a telephone coupled to the system to monitor a voice  
9 mail message while the message is being recorded into the user's mailbox.